

POTENTIAL HAZARDS**FIRE OR EXPLOSION**

Some may burn but none ignite readily.

Some may polymerize (P) explosively when heated or involved in a fire.

Containers may explode when heated.

Some may be transported hot.

HEALTH

Inhalation of material may be harmful.

Contact may cause burns to skin and eyes.

Inhalation of asbestos dust may have a damaging effect on the lungs.

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control may cause pollution.

PUBLIC SAFETY

CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer,

CALL CHEMTREC AT 1-800-424-9300

Isolate spill or leak area immediately for at least 10 to 25 meters (30 to 80 feet) in all directions.

Keep unauthorized people away.

Stay upwind.

PROTECTIVE CLOTHING

Wear positive pressure self-contained breathing apparatus.

Structural firefighters' protective clothing will provide limited protection.

EVACUATION

If water pollution occurs notify appropriate authorities.

FIRE

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions, also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE**FIRE****Small Fires**

Dry chemical, CO2, water spray or regular foam.

Large Fires

Water spray, fog, or regular foam.

Move containers from fire area if you can do it without risk.

Do not scatter spilled material with high pressure water streams.

Dike fire-control water for later disposal.

Fire Involving Tanks

Cool containers with flooding quantities of water until well after fire is out.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

ALWAYS stay from ends of tanks.

SPILL OR LEAK

Do not touch or walk through spilled material.

Stop leak if you can do it without risk.

Prevent dust cloud.

Avoid inhalation of asbestos dust.

Small Dry Spills

With clean shovel place material into clean, dry container and cover loosely; move containers for later disposal.

Large Spills

Dike far ahead of liquid spill for later disposal.

Cover powder spill with plastic sheet or tarp to minimize spreading.

Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

Move victim to fresh air. Call emergency medical care.

Apply artificial respiration if victim is not breathing.

Administer oxygen if breathing is difficult.

Remove and isolate contaminated clothing and shoes.

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

NOTICE

TO: World Resource Company
8112 West Sherman Street
Phoenix, Arizona 85043

From: Alaskan Copper Works
628 South Hanford Street
Seattle, Washington 98134

SUBJECT: Land Disposal Restriction Notice

Manifest Number: 96005

Date of Shipment: 10-21-86

This shipment of material, which is being provided for recycling, is subject to the land disposal restrictions of 40 CFR, Part 268, Subpart D or the prohibitions specified in 268.32 or RCRA 3004(d). The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR 268.7 and is shown below:

EPA Material Number	Regulated Constituent	Subcategory	Treatability Group	Treatment Standards	
				CFR Reference	Prohibition Level
F006	N/A	N/A	Nonwastewater	40 CFR 268.41 40 CFR 268.43	---

By: Gerald A. Thompson
Alaskan Copper Environmental Assistant

Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street

Phoenix, Arizona 85043

Tele: 1-602-233-9166 Fax: 602-936-9164

Issued: 8/7/90

Revised: 9/15/93 - DLS

Call CHEMTREC only in the event of
emergencies during shipping that
involve a spill, leak, fire, or accident
(all calls are recorded)

For Emergencies During Shipping in
the US or Canada, Day or Night,
Call: CHEMTREC 800-424-9300
(Use Chemtrec Company Code "WRR")
For calls from other countries call:
202-483-7616 Collect

Section 1

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge

Environmental Protection Agency (EPA) Waste Classification: F006

Chemical Family: Metallic (Hydroxide) Precipitates

Synonym: Non-ferrous Metal Hydroxide Filter Cake

PRODUCT - MATERIAL IDENTIFICATION

DOT Shipping Name: RQ, Hazardous waste, solid, n.o.s., (F006)

DOT Hazard Class: 9 Packaging Group III

DOT Identification Number: NA 3077

DOT Emergency Response Guide 31 Applies

Section 2

HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology: (rat, oral)
Copper Hydroxide	20427-59-2	0-30	1.0 mg/m3 (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0-15	1.0 mg/m3 (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg/m3 (Dust)	LD-50 7,340 mg/kg
Diatomaceous Earth	68855-54-9	0-10	6.0 mg/m3 (Dust)	LD-50 3,160 mg/kg

Section 3

PHYSICAL AND REACTIVITY DATA

Description: Solid, Clay-like Clumps,
Gray/Green to Brown,
Water Content 30-80%

Specific Gravity: 1 to 1.4

Solubility: Insoluble in water

Density: 64 to 90 lbs/cu/ft

Incompatible Reactivity: None Known

Vapor Pressure: Insignificant

Stability: Avoid contact with acids

Polymerization: Will not occur

Boiling Point: Above 2600°C

Melting Point: Above 1800°C

pH: 7.0 to 10.0

Odor: Nil

Section 4

FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable

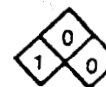
Special Firefighting Procedures: None

Product Decomposition: (Due to Fire or Explosion): None

Oxidation: Non-oxidizing

Explosive: Non-explosive

NFPA
Fire Diamond



Section 5

TOXICITY

Listed Carcinogen component: Nickel

Toxicology: See Sec. 2 (Nickel Hydroxide)

Route of Entry: Inhalation and Ingestion

Section 6

HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

Section 7

PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

Section 8

CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required.

Other Protective Equipment: Coveralls are recommended, but not required.

Eye Protection: Safety Glasses recommended.

Hand Protection: Gloves recommended.

Section 9

GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: Alaskan Copper Works 628 sixth ave. south Telephone: (206) 623-5880 Date: 10-21-96

Company Name and Address: Seattle WA 98134

Signature: [Signature]

AZF-WRC 9/93

AKC-0017944

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>W.A.L.S. 8.0.7.3.8.5.4.6.5.4.0.9.5</u>		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address <u>ALASKAN COPPER WORKS</u> <u>3200 Sixth Avenue South Seattle, WA 98134</u>						A. State Manifest Document Number											
						B. State Generator's ID											
4. Generator's Phone (<u>206</u>) <u>623-5801</u>						C. State Transporter's ID											
5. Transporter 1 Company Name <u>Mc NOTTINGHAM Co. OF So. CALIF.</u>						D. Transporter's Phone <u>1-800-834-9165</u>											
6. US EPA ID Number						E. State Transporter's ID											
7. Transporter 2 Company Name						F. Transporter's Phone											
8. US EPA ID Number						G. State Facility's ID											
9. Designated Facility Name and Site Address <u>World Resources Company</u> <u>3113 West Sherman Street</u> <u>Phoenix, Arizona 85043</u>						H. Facility's Phone <u>602-233-9166</u>											
10. US EPA ID Number <u>A.Z.D. 8.8.0.7.1.5.5.6.0</u>																	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.					
						No. Type											
a. <u>RC Hazardous waste, solid, n o s</u> <u>(P006), 9, HA3077, III</u>						<u>100</u> <u>C.F.N.</u> <u>100.2</u> <u>P</u>		<u>P006</u>									
b.																	
c.																	
d.																	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above											
<u>P006 MSY983</u>																	
15. Special Handling Instructions and Additional Information <u>24 Hour Emergency Response: 1-800-424-9300 CHEMTREC</u> <u>(Use CHEMTREC company code WOPR) Wear gloves and goggles</u>																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name <u>GERALD A Thompson</u>						Signature <u>[Signature]</u>				Month Day Year <u>10/2/96</u>							
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name <u>Jay R. [Signature]</u>				Signature <u>[Signature]</u>				Month Day Year <u>10/2/96</u>			
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name				Signature				Month Day Year			
19. Discrepancy Indication Space																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.																	
Printed/Typed Name						Signature				Month Day Year							



GENERATOR COPY

AKC-0017945



WORLD RESOURCES COMPANY

8113 West Sherman Street
Phoenix, AZ 85043-3000

Tel: 602.233.9166
Fax: 602.936.9164

OCT 29 1988

Mr. Gerald A. Thompson
Alaskan Copper Works
628 South Hanford Street
Seattle, Washington 98134

Dear Jerry:

Enclosed is the appropriate copy of the Uniform Hazardous Waste Manifest and the weigh ticket resulting from the transfer of the recyclable materials by your company to World Resources Company (WRC) and the transportation of these recyclable materials to the WRC Recycling Facility in Arizona for the purpose of recovering the metal values therein.

Sincerely,

WORLD RESOURCES COMPANY

Manifest Coordinator

Enclosures